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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/642,880
Filing Date	January 9, 2002
First Named Inventor	Chong-White
Group Art Unit	2641
Examiner Name	Unassigned
Attorney Docket Number	03493.00293

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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Kenneth F. Smolik
Signature	<i>Kenneth F. Smolik</i>
Date	May 1, 2002

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By: 

Chong-White, U.S. Patent Application No. 10/042,880 for ENHANCING SPEECH
INTELLIGIBILITY USING VARIABLE-RATE TIME-SCALE MODIFICATION

- Transmittal Form (1 page)
- Informatino Disclosure Statement (3 pages)
- PTO/SB/08A Form (1 page)
- Ten (10) References
- Return Receipt Postcard



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Attorney Docket No. 03493.00293)

In the Application of: Chong-White, et al)
Application No. 10/042,880)
Filed: January 9, 2002)
FOR: ENHANCING SPEECH INTELLIGIBILITY)
USING VARIABLE-RATE TIME-SCALE)
MODIFICATION)

Group Art Unit: 2641

Examiner: Unassigned

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INFORMATION DISCLOSURE STATEMENT

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Pursuant to 37 CFR §§1.97 and 1.98, the Applicant wishes to make the following references of record in the above-identified application. This Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 CFR §1.56. Copies of the references cited below are enclosed. The references are also listed on the enclosed and completed PTO Form 1449.

This Information Disclosure Statement is filed under 37 CFR §1.97(b) within three months of this application's filing date or before the mailing date of a first Office Action on the merits. Accordingly, there is no fee due for filing this Information Disclosure Statement.

Under 37 CFR §1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made.



Under 37 CFR §1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the cited references are, or are considered to be, material to patentability as defined in 37 CFR §1.56(b).

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REFERENCES

Verhelst, Werner, "Overlap-add Methods for Time-Scaling of Speech," Speech Communications, 30(2000), pp. 207-221.

David Kapilow, et al., "Detection of Non-Stationarity in Speech Signals and Its Application to Time-Scaling.", 6th European Conference on Speech Communication and Technology, Sept. 5-9, 1999, Budapest, Hungary, Vol.5, pp. 2307-2310.

Hazan, Valerie, et al., "The Effect of Cue-Enhancement on the Intelligibility of Nonsense Word and Sentence Materials Present in Noise," Speech Communication, 4(1998), pp. 211-226.

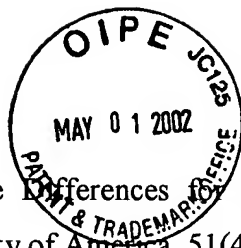
Balakrishnan, Uma, et al., "Consonant Recognition for Spectrally Degraded Speech as a Function of Consonant-Vowel Intensity Ratio," Journal of the Acoustical Society, 99(6), June 1996, pp. 3758-3768.

Gordon-Salant, "Recognition of Natural and Time/Intensity Altered CVs by Young and Elderly Subjects with Normal Hearing," Journal of the Acoustical Society, 80(6), December 1986, pp. 1599-1607.

Furui, Sadaoki, "On the Role of Spectral Transition for Speech Perception," Journal of the Acoustical Society of America, 80(4), October 1986, pp. 1016-1025.

Dorman, M.F., et al., "Phonetic Identification by Elderly Normal and Hearing-Impaired Listeners," Journal of the Acoustical Society of America, 77(2), February 1985, pp 664-670.

Steven, Kenneth N., Phonetic Linguistics, ISBN 0-12268990-9, Academic Press, Inc, 1985, pp. 243-255.



Huggins, A.W.F., "Just Noticeable Differences for Segment Duration in Natural Speech,"
Journal of the Acoustical Society of America, 51(4), 1972, pp. 1270-1278.

Miller, George A., et al., "An Analysis of Perceptual Confusions Among Some English
Consonants," Journal of the Acoustical Society of America, 27(2), March 1955, pp. 338-
352.

Respectfully submitted,

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By:

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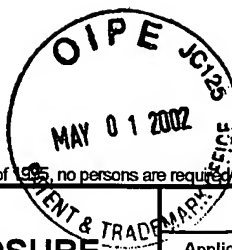
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/042,880
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U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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FOREIGN PATENT DOCUMENTS

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Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Verhelst, Werner, "Overlap-add Methods for Time-Scaling of Speech," <i>Speech Communications</i> , 30(2000), pp. 207-221	
		David Kapilow, et al., "Detection of Non-Stationarity in Speech Signals and Its Application to Time-Scaling," 6th European Conference on <i>Speech Communication and Technology</i> , Sept. 5-9, 1999, Budapest, Hungary, Vol.5, pp. 2307-2310.	
		Hazan, Valerie, et al., "The Effect of Cue-Enhancement on the Intelligibility of Nonsense Word and Sentence Materials Present in Noise," <i>Speech Communication</i> , 4(1998), pp. 211-226	
		Balakrishnan, Uma, et al., "Consonant Recognition for Spectrally Degraded Speech as a Function of Consonant-Vowel Intensity Ratio," <i>Journal of the Acoustical Society</i> , 99(5), June 1996, pp. 3758-3768	
		Gordon-Salant, "Recognition of Natural and Time/Intensity Altered CVs by Young and Elderly Subjects with Normal Hearing," <i>Journal of the Acoustical Society</i> , 80(6), December 1986, pp. 1599-1607	
		Furui, Sadaoki, "On the Role of Spectral Transition for Speech Perception," <i>Journal of the Acoustical Society of America</i> , 80(4), October 1986, pp. 1016-1025	
		Dorman, M.F., et al., "Phonetic Identification by Elderly Normal and Hearing-Impaired Listeners," <i>Journal of the Acoustical Society of America</i> , 77(2), February 1985, pp 664-670.	
		Steven, Kenneth N., <i>Phonetic Linguistics</i> , ISBN 0-12268990-9, <i>Academic Press, Inc</i> , 1985, pp. 243-255	
		Huggins, A.W.F., "Just Noticeable Differences for Segment Duration in Natural Speech," <i>Journal of the Acoustical Society of America</i> , 51(4), 1972, pp. 1270-1278	
		Miller, George A., et al., "An Analysis of Perceptual Confusions Among Some English Consonants," <i>Journal of the Acoustical Society of America</i> , 27(2), March 1955, pp. 338-352	

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